Applicant: Neil H. Bander Attorney's Docket No.: 10448-184003 / MPI1996-

037P2RDV1B(RCE); CRF D-1912K

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Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1.-67. (Canceled)

68. (Currently amended) A method of detecting normal, benign hyperplastic, or cancerous prostate cells or a portion thereof in a human subject, comprising:

providing an antibody or antigen binding portion thereof which binds to an epitope of prostate specific membrane antigen which is also recognized by a monoclonal antibody selected from the group consisting of an E99, a J415, a J533, and a J591 monoclonal antibody, wherein the antibody or antigen binding portion thereof is bound to a label effective to permit detection of normal, benign hyperplastic, or cancerous prostate cells or a portion thereof;

administering the antibody or antigen binding portion thereof to the human subject; detecting the presence of the normal, benign hyperplastic, or cancerous prostate cells or a portion thereof by detecting the label.

- 69. (Previously presented) A method according to claim 68, wherein detecting the label provides an indication of where the prostate cells are localized within the body of the human subject.
- 70. (Previously presented) A method according to claim 69, wherein the label is detected using an imaging device.
- 71. (Previously presented) A method according to claim 68, wherein the administering is carried out parenterally.

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72. (Currently amended) A method according to claim 6871, wherein the administering is carried out intravenously.

- 73. (Previously presented) A method according to claim 68, wherein the administering is carried out by intracavitary instillation.
- 74. (Previously presented) A method according to claim 68, wherein the administering is carried out rectally.
- 75. (Previously presented) A method according to claim 68, wherein the label is detected using a transrectal probe.
- 76. (Previously presented) A method according to claim 68, wherein the antibody or antigen binding portion thereof is administered following a prostatectomy.
- 77. (Previously presented) A method according to claim 68, wherein the antibody or antigen binding portion thereof is in a composition further comprising a pharmaceutically acceptable carrier, excipient, or stabilizer.
 - 78. (Canceled)
- 79. (Previously presented) A method according to claim 68, wherein the antibody is selected from the group consisting of a monoclonal antibody and a polyclonal antibody.
- 80. (Previously presented) A method according to claim 79, wherein the antibody is selected from the group consisting of an E99, a J415, a J533, and a J591 monoclonal antibody.

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81. (Previously presented) A method according to claim 79, wherein the antibody is a monoclonal antibody produced by a hybridoma having an ATCC Accession Number selected from the group consisting of HB-12101, HB-12109, HB-12127, and HB-12126.

82.-106. (Canceled)

107. (Previously presented) A method according to claim 68, wherein the prostate cells are prostate epithelial cells.

108.-110. (Canceled)

111. (Previously presented) A method according to claim 68, wherein the antibody or antigen binding portion thereof binds to live cells.

112.-115. (Canceled)

- 116. (Currently amended) A method according to claim 68, 84, 90, or 111, wherein the antibody is a monoclonal antibody.
- 117. (Currently amended) A method according to claim 68, 84, 90, or 111, wherein the antibody or antigen binding portion thereof is internalized with the prostate specific membrane antigen.
- 118. (Currently amended) A method according to claim 68, 84, 90, or 111, wherein the antibody or antigen binding portion thereof is selected from the group consisting of a Fab fragment, a F(ab')₂ fragment, and a Fv fragment.
 - 119. (Currently amended) A method according to claim 68, 84, 90, or 111, wherein the

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label is selected from the group consisting of a fluorescent label, a biologically-active enzyme label, a radiolabel, a nuclear magnetic resonance active label, a luminescent label, and a chromophore label.

- 120. (Previously presented) A method according to claim 119, wherein the label is a radiolabel.
- 121. (Previously presented) A method according to claim 120, wherein the radiolabel is a short-range radiation emitter.
- 122. (Previously presented) A method according to claim 121, wherein the radiolabel is selected from the group consisting of ²¹²Bi, ²¹³Bi, and ²¹¹At.
- 123. (Previously presented) A method according to claim 120, wherein the radiolabel is selected from the group consisting of ³²P, ¹²⁵I, ³H, ¹⁴C, and ¹⁸⁸Rh.
- 124. (Previously presented) A method according to claim 120, wherein the radiolabel is 131 I.
- 125. (Previously presented) A method according to claim 120, wherein the radiolabel is ⁹⁹mTc.
- 126. (Previously presented) A method according to claim 120, wherein the radiolabel is ¹¹¹In.
- 127. (Currently amended) The method according to claim 68, wherein the method is a method of detecting benign hyperplastic cells or a portion thereof in the subject.

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128. (Currently amended) The method according to claim 68, wherein the method is a

method of detecting cancerous prostate cells or a portion thereof in the subject.

129. (Canceled)

130. (Previously presented) The method according to claim 120, wherein the radiolabel

is an α -emitter.

131. (Previously presented) The method according to claim 120, wherein the radiolabel

is a β -emitter.

132. (Previously presented) The method according to claim 120, wherein the radiolabel

is a γ -emitter.

133. (Currently amended) A method of detecting benign hyperplastic prostate cells or a

portion thereof in a human subject, comprising:

providing an antibody or antigen binding portion thereof which binds to an epitope of

prostate specific membrane antigen which is also recognized by a monoclonal antibody selected

from the group consisting of an E99, a J415, a J533, and a J591 monoclonal antibody, wherein

the antibody or antigen binding portion thereof is bound to a label effective to permit detection

of normal, benign hyperplastic, or cancerous prostate cells or a portion thereof;

administering the antibody or antigen binding portion thereof to the human subject;

detecting the presence of the benign hyperplastic prostate cells or a portion thereof by

detecting the label.

134. (Previously presented) A method according to claim 133, wherein detecting the

label provides an indication of where the prostate cells are localized within the body of the

human subject.

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135. (Previously presented) A method according to claim 134, wherein the label is

detected using an imaging device.

136. (Previously presented) A method according to claim 133, wherein the antibody is

selected from the group consisting of an E99, a J415, a J533, and a J591 monoclonal antibody.

137. (Previously presented) A method according to claim 133, wherein the antibody or

antigen binding portion thereof binds to live cells.

138. (Previously presented) A method according to claim 133, wherein the antibody is a

monoclonal antibody.

139. (Previously presented) A method according to claim 133, wherein the antibody or

antigen binding portion thereof is internalized with the prostate specific membrane antigen.

140. (Previously presented) A method according to claim 133, wherein the label is

selected from the group consisting of a fluorescent label, a biologically-active enzyme label, a

radiolabel, a nuclear magnetic resonance active label, a luminescent label, and a chromophore

label.

141. (Previously presented) A method according to claim 140, wherein the label is a

radiolabel.

142. (Previously presented) A method according to claim 141, wherein the radiolabel is a

short-range radiation emitter.

143. (Currently amended) A method of detecting cancerous prostate cells or a portion

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thereof in a human subject, comprising:

providing an antibody or antigen binding portion thereof which binds to an epitope of prostate specific membrane antigen which is also recognized by a monoclonal antibody selected from the group consisting of an E99, a J415, a J533, and a J591 monoclonal antibody, wherein the antibody or antigen binding portion thereof is bound to a label effective to permit detection of normal, benign hyperplastic, or cancerous prostate cells or a portion thereof;

administering the antibody or antigen binding portion thereof to the human subject; detecting the presence of the cancerous prostate cells or a portion thereof by detecting the label.

- 144. (Previously presented) A method according to claim 143, wherein detecting the label provides an indication of where the prostate cells are localized within the body of the human subject.
- 145. (Previously presented) A method according to claim 144, wherein the label is detected using an imaging device.
- 146. (Previously presented) A method according to claim 143, wherein the antibody is selected from the group consisting of an E99, a J415, a J533, and a J591 monoclonal antibody.
- 147. (Previously presented) A method according to claim 143, wherein the antibody or antigen binding portion thereof binds to live cells.
- 148. (Previously presented) A method according to claim 143, wherein the antibody is a monoclonal antibody.
- 149. (Previously presented) A method according to claim 143, wherein the antibody or antigen binding portion thereof is internalized with the prostate specific membrane antigen.

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150. (Previously presented) A method according to claim 143, wherein the label is selected from the group consisting of a fluorescent label, a biologically-active enzyme label, a radiolabel, a nuclear magnetic resonance active label, a luminescent label, and a chromophore label.

- 151. (Previously presented) A method according to claim 150, wherein the label is a radiolabel.
- 152. (Previously presented) A method according to claim 151, wherein the radiolabel is a short-range radiation emitter.

Please add the following new claims:

153. (New) A method of detecting normal, benign hyperplastic, or cancerous prostate cells in a human subject, comprising:

providing an antibody or antigen binding portion thereof which competes for binding to prostate specific memebrane antigen (PSMA) with a monoclonal antibody selected from the group consisting of an E99, a J415, a J533, and a J591 monoclonal antibody, wherein the antibody or antigen binding portion thereof is bound to a label effective to permit detection of normal, benign hyperplastic, or cancerous prostate cells;

administering the antibody or antigen binding portion thereof to the human subject: detecting the presence of the normal, benign hyperplastic, or cancerous prostate cells by detecting the label.

154. (New) A method according to claim 153, wherein detecting the label provides an indication of where the prostate cells are localized within the body of the human subject.

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155. (New) A method according to claim 154, wherein the label is detected using an imaging device.

- 156. (New) A method according to claim 153, wherein the antibody is selected from the group consisting of an E99, a J415, a J533, and a J591 monoclonal antibody.
- 157. (New) A method according to claim 153, wherein the antibody or antigen binding portion thereof binds to live cells.
- 158. (New) A method according to claim 153, wherein the antibody is a monoclonal antibody.
- 159. (New) A method according to claim 153, wherein the antibody or antigen binding portion thereof is internalized with the prostate specific membrane antigen.
- 160. (New) A method according to claim 153, wherein the label is selected from the group consisting of a fluorescent label, a biologically-active enzyme label, a radiolabel, a nuclear magnetic resonance active label, a luminescent label, and a chromophore label.
 - 161. (New) A method according to claim 160, wherein the label is a radiolabel.
- 162. (New) A method according to claim 161, wherein the radiolabel is a short-range radiation emitter.